

IN THE CLAIMS

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1. (Currently Amended) A method of archiving a database, comprising the steps of:
- storing a plurality of archive logs comprising a plurality of transactions on an operational database;
 - transmitting a plurality of asynchronous streams to a backup database wherein a first asynchronous stream of said plurality of asynchronous streams is transmitted at a first transmission rate and a second asynchronous stream of said plurality of asynchronous streams is transmitted at a second transmission rate and wherein the plurality of asynchronous streams correspond to a plurality of archive logs; and
 - updating the backup database with the plurality of transactions.
2. (Original) The method of Claim 1, wherein the plurality of asynchronous streams are transmitted simultaneously.
3. (Previously Amended) The method of Claim 1 further comprising the steps of:
- comparing a plurality of files corresponding to a the backup database to a plurality of files of the operational database to determine whether there are any corrupt or missing files;

automatically transferring files from the operational database to the backup database which have been corrupted or deleted.

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4. (Original) The method of Claim 1 further comprising the step of transmitting a predetermined number of streams in parallel, wherein the number is set by a user in a config file.

5. (Original) The method of Claim 1, wherein the transmitting step runs in cron.

6. (Previously Amended) The method of Claim 1 further comprising the step of running streaming rsynchs for copying data from the operational database to the backup database.

7. (Previously Amended) The method of Claim 1 further comprising the step of constructing an array of the plurality of archive logs which are to be transferred from the operational database to the backup database.

8. (Currently Amended) A method of performing automatic recoveries on an archived database, comprising the steps of:

comparing files residing on an operational database to files residing on a backup database;

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determining whether there are any missing files by checking for files which exist on the operational database and which do not exist on the backup database;

recopying files from the operational database over to the backup database which are missing;

determining whether there are any corrupted files by checking for files which have a different size on the operational database as compared to corresponding file residing on the backup database;

recopying files from the operational database to the backup database which have become corrupted, wherein the automatic recovery process is run by a program automatically in the background without ~~human intervention~~ requiring initiation.

9. (Previously Amended) The method of Claim 8 further comprising the step of transferring a plurality of files simultaneously from the operational database to the backup database.

10. (Original) The method of Claim 9, wherein the plurality of files are streamed according to an rsync command.

11. (Original) The method of Claim 8, wherein the comparing step comprises the step of performing a rolling checksum.

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12. (Currently Amended) An archival system, comprising:
a backup database for storing a plurality of archive logs which represent data stored on an operational database;

a memory for storing instructions on how data is to be transferred from the operational database to the backup database, wherein the instructions include commands which cause the operational database to stream a plurality of archive logs asynchronously to be copied over to the backup database such that the backup database is updated with the data wherein a first asynchronous stream of said plurality of asynchronous streams is transmitted at a first transmission rate and a second asynchronous stream of said plurality of asynchronous streams is transmitted at a second transmission rate.

13. (Original) The archival system of Claim 12 further comprising instructions stored in memory which automatically compares files on the operational database against files stored on the backup database to determine whether there are any missing or corrupted files and which automatically recopies files from the operational database to the backup database which have been deleted or corrupted.

14. (Currently Amended) A computer-readable medium having stored thereon instructions for transferring data from an operational database to a backup database for archival of data, comprising the steps of:

storing a plurality of archive logs comprising a plurality of transactions on the operational database;

transmitting a plurality of asynchronous streams to the backup database wherein a first asynchronous stream of said plurality of asynchronous streams is transmitted at a first transmission rate and a second asynchronous stream of said plurality of asynchronous streams is transmitted at a second transmission rate, and wherein the plurality of asynchronous streams correspond to a plurality of archive logs; and

updating the backup database with plurality of transactions.

15. (Original) The computer-readable medium of Claim 14, wherein the plurality of asynchronous streams are transmitted simultaneously.

16. (Previously Amended) The computer-readable medium of Claim 14 further comprising the steps of:

comparing a plurality of files corresponding to a said backup database to a plurality of files of an operational database to determine whether there are any corrupt or missing files;

automatically transferring files from the operational database to the backup database which have been corrupted or deleted.

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17. (Currently Amended) A computer-readable medium having stored thereon instructions for performing automatic recoveries on an archived database, comprising the steps of:

comparing files residing on an operational database to files residing on a backup database;

determining whether there are any missing files by checking for files which exist on the operational database and which do not exist on the backup database;

recopying files from the operational database over to the backup database which are missing;

determining whether there are any corrupted files by checking for files which have a different size on the operational database as compared to corresponding file residing on the backup database;

recopying files from the operational database to the backup database which have become corrupted, wherein the automatic recovery process is run by a program automatically in the background without human intervention requiring initiation.

18. (Previously Amended) The computer-readable medium of Claim 17, wherein the instructions further comprise the step of transferring a plurality of files simultaneously from the operational database to the backup database.

19. (Original) The computer-readable medium of Claim 17, wherein the plurality of files are streamed according to an rsync command.

20. (Currently Amended) An apparatus for archiving a database, comprising:

means for storing a plurality of archive logs comprising a plurality of transactions on an operational database;

means for transmitting a plurality of asynchronous streams to a backup database wherein a first asynchronous stream of said plurality of asynchronous streams is transmitted at a first transmission rate and a second asynchronous stream of said plurality of asynchronous streams is transmitted at a second transmission rate, and wherein the plurality of asynchronous streams correspond to a plurality of archive logs; and

means for updating the backup database with plurality of transactions.

21. (Original) The apparatus of Claim 20, wherein the plurality of asynchronous streams are transmitted simultaneously.

22. (Previously Amended) The apparatus of Claim 21 further comprising:

means for comparing a plurality of files corresponding to the backup database to a plurality of files of an operational database to determine whether there are any corrupt or missing files;

means for automatically transferring files from the operational database to the backup database which have been corrupted or deleted.

23. (Currently Amended) An apparatus for performing automatic recoveries on an archived database, comprising:

CI means for comparing files residing on an operational database to files residing on a backup database;

means for determining whether there are any missing files by checking for files which exist on the operational database and which do not exist on the backup database;

means for recopying files from the operational database over to the backup database which are missing;

means for determining whether there are any corrupted files by checking for files which have a different size on the operational database as compared to corresponding file residing on the backup database;

means for recopying files from the operational database to the backup database which have become corrupted, wherein the automatic recovery process is run by a program automatically in the background without human intervention requiring initiation.

24. (Previously Amended) The apparatus of Claim 23 further comprising means for transferring a plurality of files simultaneously from the operational database to the backup database.